

Claims

a
Sub. C
Sub. B
1. ~~Method of inactivating enveloped viruses in~~
a viral preparation, ^{comprising} ~~predominantly containing~~ non-
5 enveloped viruses, according to which a sufficient
quantity of a solvent is introduced into the said viral
preparation and the said solvent is allowed to act at a
temperature of between about -5°C and +50°C, at a pH of
between about 5 and about 9 for a period which is
10 sufficiently long to significantly reduce the quantity
of enveloped viruses present in the said viral
preparation.

2. Method of inactivating enveloped viruses
according to Claim 1, according to which the solvent is
15 chosen from the group consisting of the dialkyl
phosphates and the trialkyl phosphates.

3. Method of inactivating enveloped viruses
according to Claim 2, according to which each of the
alkyl groups of the dialkyl or trialkyl phosphate
20 independently comprises from 1 to 10 carbon atoms.

4. Method of inactivating enveloped viruses
according to ^{claim 1} ~~one of Claims 1 to 3~~, according to which
the quantity of solvent introduced into the said viral
preparation is between 0.001% and 10%.

5. Method of inactivating enveloped viruses
according to ^{claim 1} ~~one of Claims 1 to 4~~, according to which
the said method is carried out in the presence of a
solubilizing agent.

6. Method of inactivating enveloped viruses
30 according to Claim 5, according to which the
solubilizing agent is a ^{Tween} ~~Tween and preferably Tween 80~~.

7. Method of inactivating enveloped viruses
according to ^{claim 5} ~~one of Claims 5 and 6~~, according to which
the quantity of solubilizing agent introduced into the
said viral preparation is between 0.001% and 10%, ~~in~~
35 ~~particular between 0.01% and 5% and preferably between~~
~~0.1 and 2%.~~

8. Method of inactivating enveloped viruses
according to ^{claim 1} ~~one of Claims 1 to 7~~, according to which

the said solvent is allowed to act, optionally in the presence of the said solubilizing agent, at a temperature of between about +4°C and +37°C ~~and preferably between about +15°C and +25°C.~~

5 9. Method of inactivating enveloped viruses according to ~~one of Claims 1 to 8,~~ ^{claim 1} according to which the said solvent is allowed to act, optionally in the presence of the said solubilizing agent, at a pH of between 6.5 and 8.5 ~~and preferably at a pH of about 8.5.~~

10 10. Method of inactivating enveloped viruses according to ~~one of Claims 1 to 9,~~ ^{claim 1} according to which the said solvent is allowed to act, optionally in the presence of the solubilizing agent, for a period of between 15 min and 24 h ~~advantageously between 30 min and 12 h and preferably between 1 h and 5 h.~~

15 11. Method of inactivating enveloped viruses according to ~~one of Claims 1 to 10,~~ ^{claim 1} according to which the said method is carried out with stirring.

20 12. Method of inactivating enveloped viruses according to ~~one of Claims 1 to 11,~~ ^{claim 1} according to which the said method is carried out under conductivity conditions of between about 5 and about 500 mS/cm ~~advantageously between about 10 and about 200 mS/cm and preferably between about 10 and about 100 mS/cm.~~

25 13. Method of preparing a viral preparation predominantly containing non-enveloped viruses comprising at least one step of inactivating enveloped viruses according to the method defined in ~~any one of~~ ^{claim 1} ~~Claims 1 to 12.~~

30 14. Method of preparation according to Claim 13, comprising at least:

- 35 (a) one step for producing the said viral preparation in an appropriate cell line,
- (b) one step for harvesting the viral preparation produced in step (a). from the producing cell line and/or from the culture supernatant,
- (c) optionally one step for breaking the cells of the producing cell line.

